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32-6842: MGAT2 Human, Sf9

Alternative Name :	Alpha-1, 6-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase, MGAT2, CDG2A, CDGS2, GLCNACTII, GNT-II, GNT2, Beta-1,2-N-acetylglucosaminyltransferase II, GlcNAc-T II, Mannoside acetylglucosaminyltransferase 2, N-glycosyl-oligosaccharide-glycoprotein N-acetylglucosaminyltransferase II.

Description

Source: Sf9, Baculovirus cells.
Sterile filtered colorless solution.
MGAT2 is an enzyme which takes part in the catalyzation of a crucial step in the reaction of oligomannose which converts to complex N-glycans. MGAT2 has three domains, classic to glycosyltransferase: short N-terminal cytoplasmic domain, a C-terminal catalytic domain and hydrophobic non-cleavable signal-anchor domain. The enzyme MGAT2 is encoded by the MGAT2 gene in humans. There are no introns in the DNA coding the gene, therefore mutations in the MGAT2 will result in carbohydrate-deficient glycoprotein syndrome, type II.Â
MGAT2 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 427 amino acids (30-447a.a.) and having a molecular mass of 49.3kDa. (Molecular size on SDS-PAGE will appear at approximately 40-57kDa).MGAT2 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

Product Info

Amount :	1 µg / 5 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	MGAT2 protein solution (0.25mg/ml) contains 20mM Tris-HCl (pH 7.5), 10% glycerol, 0.15M NaCl and 1mM DTT.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Amino Acid :	ADPRQRKNEA LAPPLLDAEP ARGAGGRGGD HPSVAVGIRR VSNVSAASLV PAVPQPEADN LTLRYRSLVY QLNFDQTLRN VDKAGTWAPR ELVLVVQVHN RPEYLRLLLD SLRKAQGIDN VLVIFSHDFW STEINQLIAG VNFCPVLQVF FPFSIQLYPN EFPGSDPRDC PRDLPKNAALKLGCINAEYP DSFGHYREAK FSQTKHHWWW KLHFVWERVK ILRDYAGLIL FLEEDHYLAP DFYHVFKKMW KLKQQECPEC DVLSLGTYSA SRSFYGMADK VDVKTWKSTE HNMGLALTRN AYQKLIECTD TFCTYDDYNW DWTLQYLTVS CLPKFWKVLV PQIPRIFHAG DCGMHHKKTCRPSTQSAQIE SLLNNNKQYM FPETLTISEK FTVVAISPPR KNGGWGDIRD HELCKSYRRL QHHHHHH.

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